

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



10/518941

(43) International Publication Date
27 January 2005 (27.01.2005)

PCT

(10) International Publication Number
WO 2005/007844 A1

(51) International Patent Classification⁷: C12N 9/90, C12P
21/04, C07K 7/00, 17/00, A61K 38/00, 45/00, 39/00

(74) Agent: HAILE, Lisa, A.; Gray Cary Ware & Freidenrich
LLP, 4365 Executive Drive, Suite 1100, San Diego, CA
92121-2133 (US).

(21) International Application Number:

PCT/US2003/019499

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG,
US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 18 June 2003 (18.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/389,511

18 June 2003 (18.06.2003) US

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(63) Related by continuation (CON) or continuation-in-part
(CIP) to earlier application:

US

60/389,511 (CIP)

Filed on

18 June 2002 (18.06.2002)

(71) Applicant (*for all designated States except US*): THE
JOHNS HOPKINS UNIVERSITY SCHOOL OF
MEDICINE [US/US]; 100 N. Charles Street, 5th Street,
Baltimore, MD 21201 (US).

Published:

— with international search report

— before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): WORLEY, Paul, F.
[US/US]; 17 Blythewood Road, Baltimore, MD 21210
(US).

*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: METHOD OF SCREENING FOR AGENTS THAT MODULATE IMMUNOPHILIN/PEPTIDYLPROLINE
CIS-TRANS ISOMERASE (PPIASE)-HOMER INTERACTION

(57) Abstract: The invention features a method of identifying, evaluating and screening for compounds or agents for the treatment of disorders involving the Homer signaling pathway in the modulation of immunosuppression and neuroprotection. The method includes evaluating the ability of agents to modulate Homer protein activity, Homer protein/immunophilin-peptidylproline cis-trans isomerase interaction, and/or Homer protein/proline-type Homer ligand consensus sequence interaction to identify agents for such treatment. The invention also discloses treatment modalities involving agents identified by such methods.



WO 2005/007844 A1